

Claims

1. A method for the detachment of a tube blank from a support mandrel, comprising:

5 inserting a device at one end of the support mandrel; and
introducing a medium between the blank and the support mandrel by the device.

10 2. The method as claimed in claim 1, wherein an end of the blank which is opposite the device is sealed off from the support mandrel.

3. The method as claimed in claim 1, further comprising providing a closure element on the blank in order to ensure complete detachment of the blank from the support mandrel.

15 4. The method as claimed in claim 1, wherein the blank is detached from the support mandrel by expanding the blank away from the surface of the support mandrel.

20 5. The method as claimed in claim 1, further comprising introducing liquid or powdery separating agents with the medium.

6. The method as claimed 1, further comprising, after detachment of the blank from the support mandrel, pushing out the blank from the support mandrel by the medium or the support mandrel is moved out.

5 7. The method as claimed 1, further comprising, before the introduction of the medium, inserting the blank on the support mandrel into a sleeve for limiting the expansion of the blank.

8. The method as claimed in claim 7, further comprising fastening the device to
10 the sleeve in such a way that the blank is clamped in place between the sleeve and the device.

9. The method as claimed in claim 7, further comprising generating a vacuum in the sleeve.

15 10. The method as claimed in claim 11, wherein the medium penetrates only between the blank and the support mandrel and thus detaches the blank from the support mandrel.

20 11. The method as claimed in claim 7, further comprising providing a non-stick surface provided on an interior surface of the sleeve.

12. A method for the detachment of a tube blank, in particular of a tubular air-spring blank, from a support mandrel, comprising the steps of:

inserting a blank, which is on the support mandrel, into a sleeve for limiting the expansion of the blank;

5 sealing off the sleeve from the blank; and
generating a vacuum in the sleeve.

13. The method as claimed in claim 12, wherein the blank is applied to the support mandrel in an extrusion unit or is wound onto the support mandrel.

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14. The method as claimed in claim 12, further comprising introducing a medium into the support mandrel in order to expand the blank for removal thereof.

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15. The method as claimed in claim 14, wherein the medium penetrates only between the blank and the support mandrel and thus detaches the blank.

16. An apparatus for the detachment of a tube blank from a support mandrel, comprising:

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a device for introducing a medium at one end of the support mandrel, the device being arranged between the blank and the support mandrel; and

a feeding element provided at the device and for introducing the medium between the blank and the support mandrel.

17. The apparatus as claimed in claim 16, further comprising a sleeve which is arranged around the blank and is closed at least at one end by the device, the blank being sealed off from the support mandrel at the other end.

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18. The apparatus as claimed in claim 17, wherein the sleeve includes a first part hinged to a second part along a longitudinal extent.

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19. The apparatus as claimed in claim 17, wherein the device is fastened to the sleeve.

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20. The apparatus as claimed in claim 16, further comprising a closing mechanism for closing the first part or the second part of the sleeve when the blank and support mandrel are inserted therein.

21. The apparatus as claimed in claim 17, wherein an inner diameter of the sleeve is larger than an outer diameter of the blank thus providing provision for expansion of the blank.

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22. The apparatus as claimed in claim 17, wherein the sleeve is cylindrical or contoured.

23. The apparatus as claimed in claim 16, further comprising a closure device at an end of the blank, remote from the device.

24. The apparatus as claimed in claim 17, wherein the sleeve has a variable in
5 length via attachment pieces.

25. An apparatus for the detachment of a tube blank, in particular of a tubular air-spring blank, from a support mandrel, comprising:

a sleeve arranged around the blank and having sealing elements for forming
10 an essentially airtight space together with the blank; and

a device for generating a vacuum in the space formed by the sleeve and the blank.

26. The apparatus as claimed in claim 25, wherein the sleeve is designed to be
15 split or hinged in its longitudinal extent.

27. The apparatus as claimed in claim 25, wherein the inside of the sleeve is provided with a non-stick coating.

28. The apparatus as claimed in claim 25, wherein the inside of the sleeve is of
20 conical or contoured design.

29. The apparatus as claimed claim 25, wherein the sleeve has a variable in length via attachment pieces.